



U.S. DEPARTMENT OF LABOR
WORKPLACE STANDARDS ADMINISTRATION
BUREAU OF LABOR STANDARDS
MATERIAL SAFETY DATA SHEET

FORM NO. OSHA-20 (MODIFIED)
MAY 1971

MDC CONTROL NO. 1908

Grade 3

SECTION I: MATERIAL AND MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME <u>Sherwin Incorporated</u>		EMERGENCY TELEPHONE NO. <u>213 261-0251</u>
ADDRESS (NUMBER, STREET, CITY, STATE AND ZIP CODE) <u>5007 E. Washington Blvd. Los Angeles, California 90040</u>		
CHEMICAL NAME AND SYNONYMS <u>N/A</u>		TRADE NAME AND SYNONYMS (DMS QPL 1908) <u>HM-3 Fluorescent Penetrant</u>
CHEMICAL FAMILY <u>Chemical Compound</u>	FORMULA <u>N/A</u>	

SECTION II: HAZARDOUS INGREDIENTS*

PAINTS, PRESERVATIVES/SOLVENTS	%	TLV (UNITS)	ALLOYS AND METALLIC COATINGS	%	TLV (UNITS)
PIGMENTS <u>Dyestuff</u> <u>Less than</u>	<u>.05%</u>	<u>N/A</u>	BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS <u>Petroleum Solvent</u> <u>58-63%</u>		<u>200 ppm</u>	FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES <u>Nonionic Surfactant</u> <u>27-32%</u>		<u>N/A</u>	OTHERS		
OTHERS <u>Ethylene Glycol, n-butyl ether</u> <u>7-11%</u>		<u>50ppm</u>			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES*				%	TLV (UNITS)

SECTION III: PHYSICAL DATA

BOILING POINT (°F) <u>I.B.P.</u>	<u>366 D.F.</u>	SPECIFIC GRAVITY (H ₂ O = 1)	<u>.8616</u>
VAPOR PRESSURE (mm Hg.)	<u>1</u>	PERCENT VOLATILE BY VOLUME (%)	<u>58-63%</u>
VAPOR DENSITY (AIR = 1)	<u>3</u>	EVAPORATION RATE (<u>Ether</u> = 1)	<u>Less than 1.</u>
SOLUBILITY IN WATER	<u>Slight</u>		
APPEARANCE AND ODOR	<u>Liquid, Yellow Green Color, Petroleum Odor</u>		

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED) <u>150 D.F. T.C.C.</u>	FLAMMABLE LIMITS	<u>Lel</u>	<u>Uel</u>
		<u>1.0</u>	<u>6.0</u>
EXTINGUISHING MEDIA <u>Foam, CO₂, Dry Chemical</u>			
SPECIAL FIRE FIGHTING PROCEDURES <u>Water unsuitable, it spreads the fire</u>			

UNUSUAL FIRE AND EXPLOSION HAZARDS

none

*PLEASE DO NOT USE GENERALIZATIONS, SUCH AS PETROLEUM HYDROCARBONS, ALCOHOL, KETONES.
USE SPECIFIC CHEMICAL NAMES, SUCH AS METHANOL, BENZENE, PERCHLOROETHYLENE.

SECTION V: HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

200 ppm

EFFECTS OF OVEREXPOSURE

Irritation of respiratory tract, central nervous system stimulation followed by depression of varying degrees.

EMERGENCY AND FIRST AID PROCEDURES

EYES: Wash with plenty of water, See Physician

SKIN: Remove by wiping, wash area with plenty of soap and water.

SECTION VI: REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	

INCOMPATIBILITY (MATERIALS TO AVOID)

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII: SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove source of ignition, avoid prolonged breathing of vapors, avoid contact with skin and eyes.

WASTE DISPOSAL METHOD

Soak up with absorbent material or have oil reclaimer haul away.

SECTION VIII: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE)

VENTILATION	LOCAL EXHAUST	X	SPECIAL
	MECHANICAL (GENERAL)	X	OTHER

PROTECTIVE GLOVES

Yes, rubber or vinyl

EYE PROTECTION

Chemical Goggles

OTHER PROTECTIVE EQUIPMENT

Rubber or vinyl apron

SECTION IX: SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in a cool well ventilated area away from fire hazard.

Keep containers labeled and closed.

OTHER PRECAUTIONS

Dale D. Winans

PREPARED BY

Feb. 14, 1973

DATE